

Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

Trichloroethylene $\text{Cl}_2\text{C}:\text{CHCl}$ SCE-2M

TLV (TWA): 50 ppm

TLV (STEL):100 ppm

Flammable Range: -----

Specification:

Measurement Range	Extended	Standard	Extended
	0.5 – 1 ppm	1 – 16 ppm	16 – 32 ppm
No. of Pump Strokes	2 (200 mL)	1 (100 mL)	0.5 (50 mL)
Volume Correction Factor (VCF)*	0.5	1.0	2.0
Sampling Time	3.0 minutes per pump stroke (100 mL)		
Color Change	White → Light violet		
Shelf Life	1 year		
Storage condition	Below 10°C (50°F)		
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.		
Reaction Principle (Double Tube)	$\text{Cl}_2\text{C}:\text{CHCl} + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2$ $\text{Cl}_2 + 3,3' \text{ Dimethylnaphthadiene} \rightarrow \text{Reaction product}$		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Possible Interferences:

Compound	Concentration (ppm)	Interference	Colour change / Comments
Nitrogen Oxides		+	Light violet
Halogens		+	Light violet
Halogenated Hydrocarbons		+	Light violet
Hexane	100	No	No Effect

Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.



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